## Salt Lagoon Sampling, St. Paul Island



## Objective

To evaluate risk to the marine environment posed by possible subsurface contamination migrating from TPA Site 13 to the Salt

Lagoon.



### Methods

- Sediment chemistry analysis for PAH and DRO
- Amphipod bioassay to evaluate survival
- Benthic invertebrate community structure to evaluate chronic effects of contaminated sediments on infauna.



### Methods (cont.)

• SPMDs to evaluate PAH concentrations in the water column and to discern contaminate gradients that may be due to the Diesel Seep Site or the harbor.



#### Salt Lagoon Sample Locations September 2002



#### Salt Lagoon SPMD Locations September 2002



# Preliminary results

- Sediment chemistry
  - DRO: Most samples very low, all below ADEC benchmark
  - Highest DRO reading near diesel seep
  - PAH: All samples below reporting limit
- Amphipod bioassay
  - Survival rate high (97-100%) in all sites
- SPMDs
  - Very low (1/thousands of typical US rivers)
  - Channel higher than salt lagoon
- Full report due in spring, 2003

